

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. CERTIFICATE NUMBER: 31-F-0002
CUSTOMER NUMBER: 442

FORM APPROVED
OMB NO. 0579-0036

ANNUAL REPORT OF RESEARCH FACILITY
(TYPE OR PRINT)

Operational Toxicology Branch
Air Force Research Laboratory
Applied Biotechnology Toxicology Branch
Af Research Laboratory, 2760 Q Street
(b)(2)High, (b)(7)(F)
Wright-Patterson Afb, OH 45433

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, or experimentation, or held for these purposes. Attach additional sheets if necessary)

(b)(2)High, (b)(7)(F)

FACILITY LOCATIONS (Sites) - See Attached Listing

REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets if necessary or use APHIS Form 7023A)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animal being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquillizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reason such drugs were not used must be attached to this report)	F. TOTAL NUMBER OF ANIMALS (COLUMNS C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters					
8. Rabbits			15	18	33
9. Non-human Primates					
10. Sheep					
11. Pigs			31		31
12. Other Farm Animals					
13. Other Animals					
14. Ferrets	1		14		14

ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all such exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL
(Chief Executive Officer or Legally Responsible Institutional Official)

SIGNATURE

(b)(6), (b)(7)(c)

(s) obsolete.)

DATE SIGNED

18 Nov 08

Column E Explanation

This form is intended as an aid to completing Column E explanation. It is not an official form and its use is voluntary. Name, addresses, protocols, veterinary care programs, and the like, are not required as part of an explanation. A Column E explanation must be written so as to be understood by lay persons as well as scientists.

1. Registration Number: **31-F-0002**
2. Number (18) of animals used in this study
3. Species (common name) **New Zealand White rabbits** of animals used in the study
4. Explain the procedure producing pain and/or distress.

New Zealand White Rabbits will be used to evaluate skin barrier creams that can be used to limit skin irritation. The back of each rabbit was clipped from mid-scapula to iliac crest 24 hours prior to exposure to allow resolution of any clipper abrasion. Rabbits are anesthetized according to the protocol. Eight areas are marked on the back of the rabbit and the selected cream will be gently massaged to the designated test areas. A 0.5 ml dose of JP-8 will be placed into a Hill Top chamber which will then be placed on designated areas on the rabbits back. The JP-8 will remain in contact with the skin for four hours.

5. Provide scientific justification why pain and/or distress could not be relieved. State methods or means used to determine that pain and/or distress relief would interfere with test results. (For Federally mandated testing, see item 6 below).

It is necessary to have living skin attached to the animal, complete with blood flow and immunologic response to achieve the goals of this research. Non-steroidal or steroid ant-inflammatory drugs cannot be used because they would interfere in the elicitation of an irritation response and the evaluation of the protectiveness of skin creams. Opioid analgesics may be used if the rabbits exhibit signs of distress. From prior experiments, the only anticipated pain/distress is the minimal irritation from JP-8 to the skin. Since the animals will be anesthetized during the procedures, we anticipate no unalleviated pain or distress to the animals.

6. What, if any, federal regulations require this procedure? Cite the agency, the code of Federal Regulations (CFR) title number and the specific section number (e.g., APHIS, 9 CFR 113.102):

Environmental protection Agency (EPA), Health Effects Test Guidelines, Office of Prevention, Pesticides and Toxic Substances (OPPTS) 870.2500.